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| **DAVID M. GECAWICH**5586 Post Rd, East Greenwich, RI 02818Local to Providence, Boston, and Groton areas | Voice: 401.398.7601 dgecawich@adaptiveminds.com |

**SUMMARY**

IT professional with over 20 years of software architecture, design, development and management experience, including 19 years of Full Stack Java EE and JavaScript web experience; worked with Java since 1998. Hold Java certification from Oracle (formerly Sun). Received a Bachelor’s degree in Computer Science from Marist College, where served as Class President.

Hands on principal developer / architect, presently specializing in Web, Single Page Apps (SPA) and Cloud Platform As A Service (PaaS) apps; guides developers on the programming of well-designed, layered Java web services in REST, Spring, and ORMs; develops rich web UIs that connect to REST services in modularized JavaScript frameworks (Angular 4 and AngularJS, Knockout, jQuery, AMD etc.), HTML5 and CSS with Bootstrap; codes optimal SQL on many databases; builds infrastructure for Continuous Integration on VMs in Maven, Jenkins and Automated Unit Tests. After programming large systems for IBM Corporation, went onto develop software on over a dozen Java EE systems, performing full SDLC, full stack roles. Also have solid team lead ability, agile skills, analytical skills, and communication skills. Has experience with performance tuning all tiers, troubleshooting, multi-tier, scalable, secure application design, architecture and deployment; object-oriented analysis and design, infrastructure and frameworks; database design, infrastructure and implementation; GUI design, team mentoring and teaching experience. Experience and strong work ethic would make a welcome addition to any team.

**TECHNICAL SKILLS**

* **Languages**: Java, Typescript ES6, JavaScript, SQL, C#, PL/SQL, T-SQL, C, C++, VB.NET
* **Web**: JavaScript, Angular 4, AngularJS, MV\*, JSON, HTML5, CSS3, Bootstrap, Angular Material, PrimeNG, React, Backbone.js, RequireJS, Underscore.JS, jQuery, Knockout, AJAX, XML, JSP, EZPaaS/ForeC
* **Middleware**: Spring 3+4+Boot, JPA, ORM, MyBatis, Hibernate, JPA, EZPaaS/FRF, JMS, AWS, myBatis, REST, SOAP, Tomcat, IWS, JBoss, JDBC, VMWare 4-6.x, Apache, Spring: Data/Core/Test/AOP/MVC/REST/Boot/Remote, Sockets
* **Methodologies**: Agile Scrum, UML, RUP, ER
* **DB**: Oracle 7-12c, MySQL, DB2, SQL Server, Access, PostgreSQL
* **Security**: Spring Security, SiteMinder, oAuth, NTLM, Basic, authorization, SSO, LDAP, JAAS, Arrow Authorization
* **Java Tools & Performance**: Dynatrace, Java Melody, JRockit, Crucible/Fisheye, Fortify, Sonar, VisualVM
* OSs: LinUX (Red Hat, SUSE, CentOS, AWS, Ubuntu), Windows, Mac, iPad, iPhone, Android Mobile Devices
* **Continuous Integration**: Git, Jenkins, Maven, Cucumber/Junit, JIRA, Artifactory, SVN, Nexus, Grasshopper Agile Board
* **Other Tools**: Oracle DBA Tools, Oracle SQL Developer, SVN, Ant, Rational Rose, E-R-Win, MS Project, Eclipse, Satori, SB, Visual Basic, PowerBuilder, Perl, Delphi, CVS, VSS, PVCS, Assembler
* **Network Engineering**: DNS Management, LTM/GTM Setup, Cloud Load Balancing, Cisco/3Com Routers, Cat 6/5e/5

**EDUCATION**

**B.S. - Computer Science** *(Cum Laude*) - 1989, Marist College, Poughkeepsie, NY, Minor: Mathematics, Major GPA: 3.54
**Oracle/SUN Certified Programmer**, Java 2 Platform, SUN Microsystems, 2002
**IBM Certified Systems Programmer,** Experienced Programmer Education, IBM Corporation, 1990,
Other: Class President at Marist College (1987-88), C/C++ Brainbench Certification (2002)
Hobbies: Biking, Running, Golf, Baseball Coach (2007-2015), Wrestling Coach (2009-2013)

**EXPERIENCE**

**Independent Contractor at Adaptive Minds, Inc., East Greenwich, RI, 1999-Present**Augment the staff of various companies to provide an integral role in the architecture and hands-on senior development services of numerous products and projects, using contemporary technologies and methodologies combined with a practical approach that has resulted a proven track record of success over almost 2 decades. Projects include:

* **Lead Java EE Full Stack Developer and OO Designer** at Large Investment Firm, RI (Mar-2014 - Present)
*Technologies Used: Java, Spring Boot, MVC, REST API, Angular 4, Angular JS, JavaScript, Single Page App Frameworks (Bootstrap, backbone.js, require.js, underscore, JQX widgets, jQuery, jQuery UI), MVVM web pattern, HTML5, CSS, AJAX, JSON, Cloud Virtualization, Tomcat/tcServer , Continuous Integration (Jenkins, Maven, Cucumber, Junit), myBatis, Oracle RAC, LinUX, UML, Dynatrace, SSH., Eclipses, Design Patterns, JIRA, Agile, SOAP UI REST –*
	+ Design, develop and deploy production Angular 4 Single Page Application for advanced trade searches, utilizing objected oriented Typescript 6 for component reuse, rich UI Angular 4 components, Spring Boot, Spring REST, JPA and Oracle.
	+ Designed and developed set of common Java EE Spring framework for authentication, authorization, database connection pooling and recovery, reusing Spring and corporate enterprise PaaS frameworks; migrated Websphere trading surveillance application to loosely coupled set of business-centric application that share a set of common divisional and enterprise frameworks, greatly improving developer productivity in the process; lead developers as needed on their assignments;
	+ Develop rich UI web components for Investment Security Case Management system that uses AngularJS generic form builder, which connect to Java REST web services in modularized AngularJS, JavaScript, HTML4/5, CSS/3, Node.js, Jade, Gulp with Bootstrap, with clear separation concerns between controllers, services, routes, factories, directives and partial view for organization, maintainability and scalability.
	+ Develop rich UI web components for Investment Compliance Email Template Management that connect to Java REST web services in modularized, AngularJS, JavaScript, HTML4/5 and CSS/3 with Bootstrap, with clear separation and organization of controllers, services, routes, factories, directives and partials for organization. Developed generic Java Spring 4 REST CRUD framework, and created AngularJS factory framework that generically called the Java REST layer with generic parameters.
	+ Lead developers on full stack development for Agile sprints on a layered Java web services platform in REST using Spring, STS, ORM myBatis and Oracle 11g RAC on Enterprise Cloud (EZPaaS/FRF), Tomcat, Linux with Dyantrace for high profile single page web application which implements JavaScript MVVM framework (backboneJS, requires AMD, knockout, jqWidgets) for Investment and Trading Compliance forms automation used as division wide reference PaaS. Analyze requirements and assist in application architecture definition to incorporate a set of enterprise wide reusable frameworks and standards; design class diagrams, context diagrams and sequence diagrams in UML. Review designs with developers and conduct solutions consultation and reviews with developers. Work with DBAs on database designs; develop Oracle SQL for ORM and data analysis. Successfully deploy four releases of Compliance Forms and Services, conception to DEV, SIT, UAT and production. Create change management tickets, log monitoring setups, create install documentation and conduct install meetings with production support.
	+ Develop administrative SPA web apps converting service layer to Spring 4 REST web services and Java base classes and generics for re-usability. Work on next generation single page apps for Investment Compliance Service Operations which generically converts REST JSON responses to rich UI using JavaScript based frameworks including HTML5, jQuery and jQueryUI.
	+ Perform OOAD, create OO/architecture diagrams, design documents and work closely with Architects and developers to reuse enterprise frameworks, and to digest nonfunctional requirements and to assist developers to execute nonfunctional requirements such as scalability, maintainability and performance tuning. Implement reference implementations. Perform domain object modeling and reference implementation development with an Agile process framework. Manage local code branches in Git (GitHub and Stash), provide systems design that supports continuous integration buildout on Jenkins and play key role in performance tuning and deployments to UAT and production environments using Jenkins, Nexus and Linux.
* **Sr. Java EE Developer** at iSport, a division of swim.com, Web’s most popular swim retailer and maker of mobile fitness tracking devices, CT. (Oct-2013 – Mar-2014)
*Technologies Used: Java, Spring/Hibernate, Spring MVC/REST/Core, Amazon Web Services, mySQL, Cloud Virtualization, Jenkins/Continuous Integration, LinUX, AJAX, JSON, JavaScipt, jQuery, Modernizr, Highcharts, CSS, SQL, JavaScript, Junit, Tomcat, UML, VisualVM Performance Profiling, SSH/ SSH key management., NetBeans, Design Patterns, JIRA, Agile*
	+ Java architect and hands on senior developer in the development of a fitness management system in which web and mobile devices connected over HTTP REST to Java/Spring web services for the sports and fitness market using a single page model; web-tier connects to distributed virtual cloud middle-tier powered by AWS EC2, Spring MVC, Hibernate, Tomcat, MySQL / no-sql database.
	+ Work closely with management and team of approx. 15 offshore developers and a small onshore team. Perform domain object modeling, use case analysis, reference implementation development with an Agile process framework.
	+ Architect and build distributed, automated, fault tolerant continuous integration, QA and alpha environment on AWS using Java, Tomcat, Jenkins, LinUX, SVN, curl, SSH and MySQL, complete with infrastructure for backups, broken build notification to development teams, tagging and release branches.
* **Java Architect / Sr. Java EE Developer** at Utility Ranked **#2 in its US industry**, RI. (P/T 2013-2014)
*Technologies Used: Java, Spring/Hibernate, Oracle, AngularJS, AJAX, jQuery, CSS, SQL, JavaScript, Junit, Struts MVC, JBoss, Tomcat, UML, Ant/Maven, Eclipse, XML, REST, Design Patterns, UML –*
	+ Convert web application from frames based Ant struts JSP to AngularJS Single Page App that uses modularized controllers, routes and factories to make AJAX calls to Java/Spring REST web services built using Maven and Jenkins.
	+ Estimate, perform OOAD and lead end to end design/development of AJAX/CSS/jQuery based web tier that interacts with middle-tier consisting of RESTful web services and Spring/Hibernate frameworks to provide e-payment services, backed by Oracle 10g. Agile scrum frames the process for sprint planning, daily standups, retrospection meetings and burn down reporting.
	+ Develop Java REST web services that act as a proxy to a vendor .Net based C# USPS presorting 3rd party application so the vendor package integrated with the Java EE billing system. Also programmed all C# .Net customizations which were required to convert vendor product to a web service for integration with Java EE.
* **Principal Java EE Developer** at Vidsys Inc., Marlborough, MA. (Nov 12 – May 13)
*Technologies Used: Java, SQL, Agile, Scrum, Spring3 Core/TestNG/Data Access/AOP/Transaction/Web/etc, Hibernate with Annotations, AJAX, Reverse AJAX (DWR), jQuery, CSS3, TortoiseSVN, Subversion, Javascript, Dreamweaver CS6, JSP, Eclipse Juno.*
	+ Design, develop and debug middle-tier and frontend components for interactive, dynamic desktop-like web application end-to-end including extensive HTML, JavaScript, CSS, jQuery, AJAX and DWR on the web-tier, REST/SOAP/JMS for web service access, middle-tier Java services that utilize Spring AOP/Transactions/IoC/Data Access, and develop DAOs using Spring/Hibernate.
	+ Write SQL and perform DBA tasks to model relational database and query DB as needed. Engage in performance tuning for this mission critical video surveillance web information management system that has highly intelligent monitoring and event-driven alerts which are in use at fortune level Wall Street firms, Apple, MBTA and many government agencies.
	+ Actively engage in Agile Scrum process framework for all development work, including grooming backlog, providing team with scrum cheat sheets, participating regularly in Sprint Planning Meetings, estimating, daily standups (answering yesterday achievements, today’s plan and, blockers).
* **Principal Jasper Server Developer** at Swarovski, Rhode Island. (P/T Oct. 11 – May 13)
*Technologies Used: JasperServer, iReport, Jasper API, Java, SQL, Oracle, SQL Server 2008, Spring, Hibernate, Maven, jQuery, CSS, JBoss, Web Services - Enterprise Wide Dashboard, Reporting and Business Intelligence (RI) Systems*Developed medium and high complexity Jasper Reports for the world’s largest crystal manufacturer and retailer. Reduced the run times of numerous reports from unacceptable durations of 30 or more minutes to acceptable duration of 5-30 seconds. Provided total solutions for mission critical chain-wide financial and inventory reports that went up against massive amounts of transactional financial and inventory data in Oracle and SQL Server 2008. Solutions were provided in the way of custom Jasper reports that made use of JasperServer, iReport, some used Jaspersoft’s Java API, complex SQL optimizations, Oracle PL/SQL and stored procedures, Oracle database design and optimization and implementation of a hybrid data warehouse / OLTP strategy and input parameter validation strategies.
As a special project, enhanced ASP.NET e-commerce web ordering application using VB.NET, jQuery, IIS, SQL Server 2008 and Visual Studio 2008 in a VMWare ESXi virtual environment. Performed QA and production deployment.
* **Sr. Java EE, Jasper Developer and Architect** at **High Tech. Large Utility**, RI. (Sep-09–Nov-12; Jun-13 – Sep 13)
*Technologies Used: Java, SQL, Oracle, JSP, Javascript, CSS, AJAX, Junit, Struts MVC, Java EE, JBoss, Weblogic, Tomcat, UML, PB, Spring , Hibernate, Ant/Maven, Eclipse, XML, Web Services, Jasper - Web Based Financial and Mobile Order Systems*
	+ Work with product owner, users & developers to define, design and develop systems to meet functional and non-functional requirements for a web-based automated invoicing and payment processing system for over $60 million and 600,000 customers that are part of a utility ranked #2 in water qualify in the nation. Work hands-on with developers, management and business analysts to perform iterative object oriented analysis and design, create UML diagrams and develop end to end components on web (HTML, CSS, jQuery, JavaScript, Servlets), Java RESTful Web Services and Oracle 10g to model business domain and service requirements. Design and develop complex use cases, including (a) JavaEE, web services, JSP/Struts MVC/jQuery/CSS/JavaScript/AJAX UIs and Jasper reports, (b) middle-tier classes for Commands, Services, DAOs, Spring/Hibernate mappings on JBoss5 and Tomcat, and (c) designed Oracle tables and constructed complex SQL. Lead other developers by example. Incorporate non-functional requirements into design and code so system is scalable, reliable, maintainable, portable, fast and secure. Do code reviews. Standardized Eclipse, Ant and JBoss developer environment for max productivity and replication to other developers. Lead developers on CIS web service subsystem for a JMS-queue based ServiceLink mobile field service order system, including design and coding of multiple Java EE web services, XML and XML Schemas. Also, enhance Java Swing customer finance application. Create fixes and enhancements to billing system in a blended combination of client/server PowerBuilder 11.x and Java EE components.
	+ In an effort to resolve severe reporting performance and stability problems with customer’s implementation of SAP’s enterprise reporting package, led the effort with a small team of developers to convert approximately 200 reports to Jasper and deploy the reports to customer Java EE IntraNet. Acted a developer mentor for complex reports. Stability problems were resolved. IT groups and users are now functioning more effectively with both daily management and line level financial reports and IT has an effective way to address new and ad-hoc real time report needs.
* **Principal Java EE Developer & Architect** for Credit and Sales Information Bureau (Dun & Bradstreet competitor), Providence, RI (2006 - Aug 2009)
*Technologies Used: JavaEE, JBoss, SQL Server, UML, Hibernate, Ant, Eclipse, XML, REST/SOAP Web Services, JasperServer*Hands-on team lead in OOAD and development of secure JavaEE systems which provide financial web services, web-based back office administration and web reports on commercial businesses. Developed front end in JSP/Servlet/Struts and web services, multi-tier business logic using frameworks and design patterns (Hibernate, Services, DAO, Domain etc.), backend ER design and forward engineering to SQL Server and JUnit Test suite creation. Administered JBoss, developed high-end business intelligence reports in Jasper, outputted to PDF, HTML, Excel or Text. Interacted with management, customer’s partners and clients and authored documentation of requirements, design and UML diagrams, and user-level Web Service API documentation.
* **Technical Architect & Senior Java EE Developer**, **GTECH**, West Greenwich, RI (Nov 2003 - 2006)
*Technologies: Java EE, WebSphere, JBoss, DB2, RUP, UML, Hibernate, Ant, Eclipse, CVS, Junit, JSP, HTML,CSS*Design and development of web-based Java EE distributed international lottery applications which are deployed to Websphere, DB2 and MS SQL Server. Lead OO Analysis and Design, create UML diagrams and produce technical specifications. Develop Java EE classes that meet the requirements defined in use cases and leverage enterprise frameworks. Design and develop application frameworks for Hibernate and database persistence layer, application extension framework for multi-site customizations and exception handling framework. Work with Architect, Project Manager and Technical Leads to provide overall release object design for releases 8, 9, 10, 11 and 12 using UML class and sequence diagrams, and to completed all phases of use case development and JUnit testing for 20 use cases.
* **Technical Architect & Senior J2EE Developer,**  **CVS Corporation**. (Apr-2002 – Jun 2003)
*Technologies Used: J2EE, JSP, Struts MVC, EJB, RUP, UML, ORM, CocoBase, LDAP, iPlanet/SunONE, Ant, PVCS, JUnit, MicroStrategy Reporting***Architecture**: Served as Technical Architect for the Inception, Elaboration and Construction phase of the development of a J2EE Inventory Stock Ledger system which aggregated financial and inventory Big Data from over 2,500 stores nationally, and provided OLTP and reporting systems that ultimately produced the Gross Margin and Shrink results reported by Finance to Wall Street for this $40B public company. Worked with Enterprise Architects to incorporate into project non-functional requirements for performance, scalability, availability, enterprise constraints and policies. Mentored developers and OO designers on design and impact of decisions on the big picture. Created System Arch Spec.
**Design**: Served as lead object-oriented designer for use cases. Performed iterative business domain and process analysis and modeling to arrive at class and sequence diagrams for use cases and horizontal class infrastructure using design patterns and Rational Rose for UML modeling. Forward and reverse engineered designs into Java 2 presentation and business tier class source code for implementation by developers. Met with developers to review and iterate web-tier and middle-tier class interfaces. Create mock unit tests to validate design and published source to PVCS for implementation by developers.
**Development**: Integrated corporate enterprise frameworks, developed security, lookup and HTTP session application frameworks; developed the first collection of well-documented, Java classes for developers to use as a reference implementation, including Session and Entity EJBs for business tier and integration tiers, JSP/Struts classes for the presentation tier and several of the complex application frameworks (façades, managers, mediators, factories etc.) that were reused by all use cases. Distributed, reviewed and mentored developers on each new release, evolving development team standards in the process.
* **Architect & Principal Software Engineer**, **Textron**, one of America’s best-performing Fortune 500 companies, Providence, RI ( Oct-2001 – Mar 2002 )
*Technologies Used: J2EE, JSP, Java Servlets, LDAP, iPlanet and DB2***Architect** system design and create UML for a brand asset management Java 2 EE web portal application on UNIX, targeted at automating and consolidating the brands for numerous worldwide Textron subsidiary web sites, including subsidiaries Bell Helicopter and Cessna Aircraft. **Design** a object-oriented framework with well-documented, reusable Java components for user-registration, secure authentication and authorization, auto-email generation, and user profile searches. Designed common object interface that works with both LDAP and relational user databases. **Lead analysis and design meetings** with customer management, staff and development team. Assign roles and responsibilities. Track schedule, monitor team progress, and report weekly status to management to drive project to delivery. **Develop** the J2EE web application using open standards technologies including JSP, Java Servlets, LDAP, iPlanet, and JDBC.
* **City of Providence** (Jun 98 - Jun 99; Aug 2001 – Oct-2001)
*Customer Management Web – Java, JSP/Servlets, AWT/Swing, J2EE, Oracle and PowerBuilder***Senior Software Engineer**Designed, developed and deployed a data warehouse in Oracle on UNIX, and developed a Java 2 EE web application that centralizes the financial ledger reporting of customer billing, collections and receivables for the financial, commercial services and engineering lines of business. Developed Java Swing customer information application.
* **Ariba, Inc.,** Burlington, MA (Aug 99 – May 2001 )
*B2B Online Auction Web Portal - J2EE, JSP, XML, XSLT and Oracle***Web Architect and Senior Software Engineer** for Ariba, Inc., the leading global provider of B2B and open commerce solutions. Architected the web framework requirements for the redesign of the B2B e-procurement web product (sourcing.ariba.com) using Java, Oracle and WebLogic on Sun Solaris.

**SupplierMarket.com,** Waltham, MA (Acquired by Ariba in 2000)
*Online B2B e-Procurement Portal – Java Servlets, JSP, AWT and Oracle***Senior Web Developer & Web Architect** in the full lifecycle of e-procurement web portal. Helped spearhead launch of site that streamlines supply chains and matches buyers and suppliers for build-to-order manufacturing contracts. The site was featured in INFORMATIONWEEK and on the cover page of InternetWeek on week of October 18, and in less than 8 months, was acquired for approx. $600M Designed web application web security, directory architecture, JSP naming schemes, database access and object persistence framework and web component interfaces for middle-tier Java data access and business logic components. Developed middle layer Java data access components that perform CRUD (create, retrieve, update and delete) operations on Oracle using object-to-relational mapping. Developed JSP, Servlets, HTML forms and JavaScript for web modules for dozens of use cases. Developed Java GUI applet that performed advanced AWT image and document viewing, printing and scrolling. Synchronized and stress tested subsystem code to make thread safe in a multi-tier, multi-threaded architecture.

* **Cirrus Wireless, Inc**., Lowell, MA( May 2001 – Aug 2001 )
*PDA & Cell Phone Wireless Location Based System (LBS) – Java, XML, J2ME & SQL Server***Software Architect and Senior Developer** – deigned, developed and deployed a wireless data-application-builder framework based in Java, and then used that framework to build the wireless mapping application offered by MapScape.com, using XML as the sole messaging protocol. (Java 1.2, XML, J2ME, WAP/WML, SQL Server, JSP, SuperWaba, Palm OS, WinCE). Design and develop a J2ME application that runs on Motorola cell phones and uses serial communications to receive GPS data points (latitude, longitude, speed, altitude, heading) in a multi-threaded embedded application, and then transmit the location data over the Internet wirelessly to an HTTP server that maps the data for fleet management.
* **Enigma Media, Inc.,** New York, NY (Jul-00-Sep 00)
*Online Digital Entertainment Web - J2EE, JSP and Oracle***Senior Software Developer and Project Manager** for entertainment e-portal founded by Doug Liman (director of motion picture hits “Go” and “Swingers”) and Doug Bartis (developer of television series “Providence”, “Everyone Loves Raymond” and “Will and Grace”). Led the development of two large J2EE and Oracle web entertainment e-portals made of reusable, scalable front-end JSP, middle-tier EJB objects and Oracle 8i database for complex web user registrations, browser-based file uploads, content searches, people directory searches, email responder messaging, content management, web-based employee workflow management and live radio station streaming. Designed and developed J2EE compliant web security implementation. *Project Manager* - Met with executives, analyzed business requirements and developed detailed project plan. Created online project collaboration web site. Assigned roles and work. Reported status and drove project to on-time delivery.
* **Mariner1.com,** Newport, RI ( Dec 1999 - April 2000 )
*Online B2C Boating Web - J2EE and Oracle***Senior System Developer & Architect** for on-line boating company that pioneered B2C online consumer reporting for the boating industry. Architected the web, middle-tier and database requirements for a large Java 2EE and Oracle web application that is an online portal for boaters. Designed and implemented database in Oracle 8i using entity-relationship modeling. Developed JavaBeans, JSP, Servlets, JavaScript and HTML for the numerous online search modules including anything you want to know about boat models, boat dealer locators, mariner locations, boat reviews, boat repair shops, weather, marine forecasts, message boards, maps/driving directions and a simple yet powerful wizard that chooses the right boat for you (using a complex proprietary configuration algorithm). Led the full lifecycle development, including vendor product coordinator, team assignment and weekly status reports.
* **KeySpan**, Waltham, MA (Jun 1999 - Jul 1999)
*Intranet Billing Meter Reading Site - Microsoft COM/ActiveX/ASP and Oracle***Lead Web Developer** with AMR Corp, a subsidiary of KeySpan - the largest natural gas distribution company in the Northeast – to launch an IntraNet application on-schedule in 45 days. Designed and developed a data-driven Intranet application targeted at water utility organizations that manages the Oracle billing interface of a mobile meter reading system. Developed ASP and COM application modules that automate the upload and download of data across the web between an Oracle billing system and mobile meter reading devices.
* **eSped.com** (Apr 1999 - May 1999)
*Online Government Forms Web Application - Microsoft ASP, COM and SQL Server***Senior Software Engineer** - Design and develop web-based application for Application Service Provider that performs forms automation, data management and high-quality government forms reporting in HTML and PDF. Architected web security, directory scheme, middle-tier component subsystems and database using E-R modeling and UML. Developed COM code that performs SQL database access to SQL Server. Developed web based ASP, sever-side JavaScript, HTML and COM modules that dynamically generate high-quality reports in PDF or HTML format.
* **Art of Software, Inc** (1993-1995 p/t)
*Commercial Project Management Application***Lead Software Engineer** for a project management application that was tailored for object-oriented software projects. The application was promoted by James Rumbaugh, often credited as the co-founder of object orientation, with his bestseller book “Object-Oriented Modeling and Design”, and published by Prentice Hall. In use at fortune-level companies like AT&T and Anderson Consulting, this application is best described as a Microsoft Project tailored for object-oriented projects. Developed the Visual Basic code, SQL programming and relational database for system modules that automate project management, team member creation, role and responsibility assignment, schedule and Gantt chart creation, and expert system document filtering, viewing and printing. Trained extensively by design architects in the areas of OOA, OOD and database design.

**Tarnell, LLC,** Providence, RI (1994 - May 1999)

* **Senior Software Engineer & Systems Manager** – Visual Basic, SQL Server, Oracle, ER/Win, Delphi and PowerBuilder
Provided commercial software development, architecture and technical strategy to this nationally recognized Dun & Bradstreet competitor that provides Plastics and Chemical industry sales lead generation software and databases and credit approval databases and software.
* **Sales Force Automation (SFA) Commercial Application (DSS) - Delphi, SQL Server and Oracle**Designed, developed and managed client/server application that was the company flagship lead generation software and sales database (TIPs) targeted at fortune-level chemical & plastics suppliers. Designed the database using entity-relationship modeling. Administered the database migration to SQL Server and Oracle. Developed database programming SQL in both PL/SQL and Transact-SQL. Developed and automated Oracle utility scripts, SQL Loader control files, import/export parameter files and BCP scripts, which are used to dump, deploy and load data.Managed and assigned responsibilities to team of programmers assigned to maintain and enhance the software. Designed and developed C/C++ dynamic link libraries that interface with InstallShield to perform custom product installation tasks such as complex file I/O, Oracle database configuration and SQL Server configuration. Design and developed Java/JSP prototype for the Internet version of this software.
* **Sales Lead and Financial Data Collection Application (OLTP) – VB, PowerBuilder, SQL Serve***r*Worked with team to develop mission critical data collection application used to manage sales, financial and credit intelligence on over 250,000 Chemical and Plastics companies using Visual Basic, PowerBuilder, SQL Server, low-level ODBC API and OLE Automation. Designed system using client/server architecture, object modeling (Rumbaugh) and normalized database modeling techniques. Designed and implemented the database using E-R modeling, which consists of over 200 tables and dozens of stored procedures, views and triggers for MS SQL Server and Interbase.
* **Credit & Risk Management Application - Delphi, SQL Server and Oracle**Designed and developed financial risk management system for Instant Credit Evaluation (ICE) and credit reporting. Developed financial chart and report analysis modules that greatly simplified credit report analysis by displaying statistical trend analysis in chart format. Designed system to allow for interoperability of vendor-supplied and OLTP user-entered data.

**FleetBoston Bank**, Providence, Rhode Island (1992-1994)

* **Client/Server Financial Applications Developer** - Converted 2 legacy consumer-financing applications to Visual Basic, SQL, Access and Novell. Pioneered the first GUI database application developed internally at Rhode Island Hospital Trust National Bank, formerly a BankBoston Company. (Visual Basic 3, Access, Novell, IBM MVS)
* **Large Applications Programmer** - Primary programmer of a banking Financial System, RI Loans Systems, providing production support for the backend and front-end in an IBM mainframe environment. (MVS, TSO, COBOL, CICS, MVS, TSO, JCL, Easytrieve).

**IBM Corporation**, Kingston, New York (1987-1992)

* **Systems Programmer** for IBM National Service Division - Developed operating system code and provided technical support to fortune 500 companies for MVS and VM on IBM mainframe computers using Assembler and PL/AS. Specialized in I/O subsystems, IPL, dump and restore (DDR) and device driver development for large disk storage and tape systems. Designed and developed a fully functional XA operating system for research that consisted of IPL, multi-threaded dispatch, memory paging/swapping and I/O subsystem. Attended numerous courses on system design, architecture, service, quality and project management.
* **Statistical Application Programmer** for VLSI Computer Chip Manufacturing Line, the largest semi-conductor plant in the world in 1987 - Worked with team of 2 seasoned IBM software engineers to develop and debug a user-friendly on-line application system using SAS, JCL, TSO/PDF and CLIST in an MVS/XA environment. Electrical engineers used the system as the primary tool in analyzing critical trend data on IBM computer chips; this was a 1-year full-time co-op assignment in 1988-89 at Fishkill while at Marist College.
* **Teacher Assistant** for IBM computer operators in college courses including Pascal, Discrete Math and Pre-Calculus; this was a 1-year part-time contract in 1987-88 at IBM while an undergraduate at Marist College. A committee of Computer Science professors selected only 2 students to this appointment based on academics, communications, mentoring and leadership criteria.